## EAST Search History

| Ref<br># | Hits | Search Query   | DBs   | Default<br>Operator | Plurals | Time Stamp          |
|----------|------|--|---|---------------------|---------|---------------------|
| S1       | 8702 | 375/354,356,357,362,363,364,365,366,367,368.cds.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>UPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2008/05/19<br>07:26 |
| \$2      | 27   | S1 and (common near2 pilot) and (channel near2 pilot)                                    | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2008/05/19<br>07:27 |
| S3       | 21   | S2 and (@pd<="20030129" OR @ad<="20030129" OR<br>@rlad<="20030129" OR @prad<="20030129") | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2008/05/19<br>07:28 |
| S4       | 3782 | ofdma  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2008/05/19<br>07:43 |
| S5       | 89   | S4 and (common near2 pilot) and (channel near2 pilot)                                    | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2008/05/19<br>07:43 |

| S6  | 301  | S4 and (@pd<="20030129" OR @ad<="20030129" OR<br> @rlad<="20030129" OR @prad<="20030129")  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>07:44 |
|-----|------|--|---|-----|----|---------------------|
| S7  | 99   | S6 and pilot   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>07:44 |
| S8  | 1592 | mimo and (@pd<="20030129" OR @ad<="20030129" OR<br>@rlad<="20030129" OR @prad<="20030129") | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>07:52 |
| S9  | 443  | S8 and pilot   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>07:53 |
| S10 | 424  | S9 and transmit\$4   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>07:53 |
| S11 | 151  | S10 and synchronization  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>08:05 |

| S12 | 88 | (spreading near2 code) with (training near2 sequence)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>08:36 |
|-----|----|--|---|-----|----|---------------------|
| S13 | 75 | S12 and (@pd<="20030129" OR @ad<="20030129" OR @riad<="20030129" OR @prad<="20030129")   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>08:36 |
| S14 | 0  | S13 and mimo   | US-PCPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>08:36 |
| S15 | 3  | \$13 and 09/586561   | US-PCPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>09:18 |
| S16 | 29 | (channel estimation) with (time synchronization) with (frequency synchronization)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>09:58 |
| S17 | 23 | ["20010004374"   "20030123559"   "20030125040"   "20030147458"   "20030162519"   "20030185241"   "20040042556"   "20040120411"   "5329555"   "5440590"   "6351499"   "6369758"   "6473467"   "6628733"   "6636568"   "6683916"   "6771706"   "6801790"   "6862271"   "6934320"   "7006848"   "7050776"   "7079514").PN. OR ("7206606").URPN. | US-PCPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/19<br>10:03 |
| S18 | 57 | extract\$3 with channel with specific with (code or pilot)   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/19<br>11:40 |

| S19  | 37  | S18 and (@pd<="20030129" OR @ad<="20030129" OR<br>@riad<="20030129" OR @prad<="20030129")  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>11:41 |
|------|-----|--|---|-----|----|---------------------|
| 20   | 12  | extract\$3 with (channel near2 specific near2 (code or pilot))                             | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/19<br>11:54 |
| 321  | 615 | (extract\$3 with (channel near2 (code or pilot))) not \$20                                 | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/19<br>11:58 |
| \$22 | 426 | \$21 and (@pd<="20030129" OR @ad<="20030129" OR<br>@riad<="20030129" OR @prad<="20030129") | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19          |
| \$23 | 31  | \$22 and (data detect\$3)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>11:58 |
| 324  | 0   | 10/538004 and despreader   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>12:41 |
| S25  | 1   | 10/538004 and despreading  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>12:41 |

| S26 | 0    | jp near2 "2002" near2 "314481" | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>UPO;<br>DERWENT;<br>BM_TDB  | ADJ | ON | 2008/05/19<br>12:47 |
|-----|------|--------------------------------|---|-----|----|---------------------|
| S27 | 0    | jp with "2002" with "314481"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>UPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>12:48 |
| S28 | 0    | jp with "2002" with "016529"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>UPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>12:48 |
| S29 | 0    | sdm adj2 sofdm                 | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>UPO;<br>DERWENT;<br>BM_TDB  | ADJ | ON | 2008/05/19<br>12:51 |
| S30 | 20   | sdm adj2 cofdm                 | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>UPO;<br>DERWENT;<br>[BM_TDB | ADJ | ON | 2008/05/19<br>12:51 |
| S31 | 1801 | cofdm or (code\$1 near2 ofdm)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>UPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>13:04 |

| S32 | 988 | \$31 and (@pd<="20030129" OR @ad<="20030129" OR<br>@rlad<="20030129" OR @prad<="20030129")   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>13:04 |
|-----|-----|--|---|-----|----|---------------------|
| 333 | 22  | S32 and (spread\$3 with channel with pilot)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>13:05 |
| S34 | 19  | ofdm and (coarse near2 time near2 synchronization) and (fine near2 time near2 synchronization)   | US-POPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>13:53 |
| S35 | 2   | *6944119*.pn.  | US-PCPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/19<br>14:09 |
| S36 | 15  | ("5771224"   "6091702"   "6160791"   "6160821"   "6175550"  <br>  6215819"   "6246735"   "6304611"   "6314083"   "6381251"  <br>  6611493"   "6625111"   "6771591").PN. OR ("6944119").URPN. | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/19<br>14:11 |
| S37 | 12  | ("2003/0072255").URPN.   | USPAT   | ADJ | ON | 2008/05/19<br>14:34 |
| S38 | 2   | mimo and ofdm and (despread\$3 with (match\$2 filter))   | USPAT   | ADJ | ON | 2008/05/19<br>14:43 |
| S39 | 3   | (akinori and taira).in.  | USPAT   | ADJ | ON | 2008/05/19<br>14:47 |
| S40 | 3   | ((time near2 synchronization) with (frequency near2 synchronization) with pilot) same ((channel near2 estimat\$3) with (channel near2 (pilot or code)))                                      | USPAT   | ADJ | ON | 2008/05/19<br>15:16 |

| S42 | 174 | ofdm and (spread\$3 with preamble)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>06:51 |
|-----|-----|---|---|-----|----|---------------------|
| S43 | 67  | S42 and (@pd<="20030129" OR @ad<="20030129" OR<br>@riad<="20030129" OR @prad<="20030129") | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | ADJ | ON | 2008/05/20<br>06:51 |
| S44 | 0   | ofdm and (long preamble) and (short poreamble) and (spread\$3 near3 preamble)             | US-PCPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | ADJ | ON | 2008/05/20<br>07:54 |
| S45 | 59  | ofdm and (spread\$3 near3 preamble)   | US-PCPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | ADJ | ON | 2008/05/20<br>07:54 |
| S46 | 19  | S45 and (@pd<="20030129" OR @ad<="20030129" OR<br>@riad<="20030129" OR @prad<="20030129") | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | ADJ | ON | 2008/05/20<br>07:54 |
| S47 | 1   | 09/494555   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | ADJ | ON | 2008/05/20<br>08:03 |

| S48 | 274 | ofdm and (spread\$3 near3 pilot)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>08:06 |
|-----|-----|---|---|-----|----|---------------------|
| S49 | 479 | ofdm and (spread\$3 near3 (pilot or known))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>08:06 |
| S50 | 216 | S49 and (@pd<="20030129" OR @ad<="20030129" OR<br>@riad<="20030129" OR @prad<="20030129") | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>08:07 |
| S52 | 130 | \$50 and synchronization  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>08:07 |
| S53 | 127 | S52 and channel   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>08:08 |
| S54 | 8   | (delay\$3 near2 profile) with (number with transmit\$4 with antenna)                      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>11:45 |

| S55 | 2  | (delay\$3 near2 profile) with (number near3 transmit\$4 near3 antenna) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>12:53 |
|-----|----|--|---|-----|----|---------------------|
| S56 | 1  | (power near2 profile) with (number near3 transmit\$4 near3 antenna)    | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>12:53 |
| S57 | 0  | (peak near2 profile) with (number near3 transmit\$4 near3 antenna)     | US-POPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>12:54 |
| S58 | 20 | (power near2 delay) with (number near3 transmit\$4 near3 antenna)      | US-POPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>12:56 |
| S59 | 26 | (power near2 delay) same (number near3 transmit\$4 near3 antenna)      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>12:58 |
| S60 | 6  | \$59 not \$58  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>12:58 |

| 361 | 8  | (profile near2 delay) same (number near3 transmit\$4 near3 antenna)                       | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>13:00 |
|-----|----|---|---|-----|----|---------------------|
| 362 | 0  | ("2007/0147533").URPN.  | USPAT   | ADJ | ON | 2008/05/20<br>13:03 |
| 363 | 64 | mimo and ((transmit\$4 near3 antenna) with delay)   | USPAT   | ADJ | ON | 2008/05/20<br>13:04 |
| 364 | 40 | S63 and (@pd<="20021220" OR @ad<="20021220" OR<br>@rlad<="20021220" OR @prad<="20021220") | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>13:05 |
| 365 | 1  | (long preamble) and (short preamble) and ((orthogonal near2 code) with preamble)          | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>13:25 |
| 366 | 1  | (long preamble) and (short preamble) and ((orthogonal near2 code) with pilot)             | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>13:26 |
| 667 | 84 | (preamble) and ((orthogonal near2 code) with pilot)                                       | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/05/20<br>13:27 |

| S68 | 2018 | pilot with ((multipl\$4 with orthogonal) or (spread\$3 with (orthogonal or pn or psuedo or randon))) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/06/08<br>13:27 |
|-----|------|--|---|-----|----|---------------------|
| S69 | 1267 | S68 and (@pd<="20030129" OR @ad<="20030129" OR @ad<="20030129" OR @prad<="20030129")                 | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | ADJ | ON | 2008/06/08<br>13:27 |
| S70 | 649  | S69 and synchronization  | US-PCPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | ADJ | ON | 2008/06/08<br>13:28 |
| S71 | 198  | S70 and (pilot with spread\$3 with orthogonal with code)   | US-PCPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | ADJ | ON | 2008/06/08<br>13:32 |
| S72 | 24   | S70 and (pilot with despread\$3 with orthogonal with code)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | ADJ | ON | 2008/06/08<br>13:34 |
| S73 | 2    | S70 and (synchroniz\$5 with pilot with despread\$3 with orthogonal with code)                        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>UPO;<br>DERWENT;<br>BM_TDB        | ADJ | ON | 2008/06/08<br>13:39 |

| S74 | S70 and multicarrier | US-PGPUB;   |  | 2008/06/08 |
|-----|----------------------|-------------|--|------------|
|     |                      | USPAT;      |  | 14:37      |
|     |                      | USOCR; EPO; |  |            |
|     |                      | JPO;        |  |            |
|     |                      | DERWENT;    |  |            |
|     |                      | IBM_TDB     |  |            |

6/8/2008 7:28:49 PM C:\ Documents and Settings\ slee7\ My Documents\ EAST\ Workspaces\ 10538004.wsp